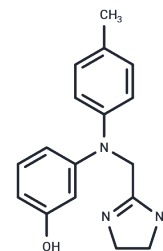


Phentolamine

Chemical Properties

CAS No. :	50-60-2
Formula:	C17H19N3O
Molecular Weight:	281.35
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Phentolamine mesylate is an alpha-1 and alpha-2 selective adrenergic receptor antagonist
Targets(IC50)	Adrenergic Receptor
In vitro	Phentolamine Inhibits Angiogenesis in Vitro: Suppression of Proliferation Migration and Differentiation of Human Endothelial Cells[1]

Solubility Information

Solubility	DMSO: 62.5 mg/mL (222.14 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 6.25 mg/mL (22.21 mM), Solution. 10% DMSO+90% Saline: < 6.25 mg/mL (22.21 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5543 mL	17.7715 mL	35.5429 mL
5 mM	0.7109 mL	3.5543 mL	7.1086 mL
10 mM	0.3554 mL	1.7771 mL	3.5543 mL
50 mM	0.0711 mL	0.3554 mL	0.7109 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Goldstein, I. Oral phentolamine: an alpha-1, alpha-2 adrenergic antagonist for the treatment of erectile dysfunction[J]. international journal of impotence research, 2000, 12:0-0.

Zhao X, Li F, Cheng C, et al. Social isolation promotes tumor immune evasion via β 2-adrenergic receptor. Brain, Behavior, and Immunity. 2024

Liangli Pan, Chenyang Liu, Yanan Kong, et al. Phentolamine Inhibits Angiogenesis in Vitro: Suppression of Proliferation Migration and Differentiation of Human Endothelial Cells. Clin Hemorheol Microcirc. 2017;65(1):31-41.

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